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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,457	09/828,457 04/09/2001		David Bordeleau	10442-17US JA/IC	6909
20988	7590	04/07/2005		EXAMINER	
OGILVY RENAULT 1981 MCGILL COLLEGE AVENUE				CHUNG, DANIEL J	
SUITE 1600				ART UNIT	PAPER NUMBER
MONTREAL, QC H3A2Y3 CANADA			2672		
				DATE MAILED: 04/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/828,457	BORDELEAU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Daniel J Chung	2672	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 24 N	<u>lovember 2004</u> .		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under E	·		
Disposition of Claims			
 4) Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,5-7 and 9-12 is/are rejected. 7) Claim(s) 4 and 8 is/are objected to. 8) Claim(s) are subject to restriction and/o 	wn from consideration.		
Application Papers	•		
9) The specification is objected to by the Examine	er.	•	
10) The drawing(s) filed on is/are: a) acc		Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da		
Paper No(s)/Mail Date		atent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Claims 1-12 are presented for examination. This office action is in response to the Appeal Brief filed on 11-24-2004.

In view of the Appeal Brief filed on 11-24-2004, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

Art Unit: 2672

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,5-7 and 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsukamoto et al. (6,570,569)

Regarding claim 1, Tsukamoto et al discloses that the claimed feature of a method for generating a sequence of object definition data sets for a video particle explosion effect comprising: providing a graphics image data file [i.e. "the polygon data group of the object", which specified by "the video block"; 11 See col 8 line 4-5, col 6 line 18-44, col 7 line 62-col 8 line 12] of a particle pattern defining a shape [i.e. "the shape of the display element" See col 2 line 34-36, col 7 line 51-54, col 7 line 39-40, col 16 line 64-65] of a plurality of particles [i.e. "display element"; 1-29 shown in Fig 6(b)]; generating a sequence of object definition data sets [i.e. "the polygon position data and polygon direction data of the display element per frame displaying period", "the renewal of frame image data" See col 8 line 19-21, col 8 line 29-30, col 9 line 48-50] using graphics image data file; wherein object definition data sets can be used to render a particle explosion effect [i.e. "collapsing motion"] on a video file. (See Fig 8-14)

Regarding claim 5, Tsukamoto et al disclose that particle pattern is a shattered glass pattern. (See Fig 6(b))

Art Unit: 2672

Regarding claim 6, Tsukamoto et al discloses that a step of drawing graphics image data file. [i.e. "dashed lines the display elements structuring object"; See col 7 line 39-40, Fig 6(b), "outline of each display element"; See col 14 line 59-60]

Regarding claim 7, Tsukamoto et al discloses that defining an edge [i.e. "dashed line", "outline"] for plurality of particles [i.e. display element"] (See col 7 line 39-40, col 14 line 59-60, Fig 6(b)) and filling up each of plurality of particles with a different color [i.e. "bitmap data" See col 9 line 50-52].

Regarding claim 9, Tsukamoto et al discloses that identifying a plurality of triangles [i.e. "polygon"] for each particle ["display element"] (See col 7 line 44-54)and storing shape information ["the shape of the display element"] from each triangle in object definition data sets. [i.e. "the polygon position data and polygon direction data of the display element per frame displaying period", "the renewal of frame image data" See col 8 line 19-21, col 8 line 29-30, col 9 line 48-50]

Regarding claim 10, Tsukamoto et al discloses that identifying a plurality of triangles ["polygon"] for each particle and storing parameter information from each triangle in object definition data sets [i.e. "the polygon position data and polygon direction data of the display element per frame displaying period", "the renewal of frame image data" See col 8 line 19-21, col 8 line 29-30, col 9 line 48-50], parameter information being extracted from each channel. (See col 8 line 4-7)

Art Unit: 2672

Regarding claim 11, Tsukamoto et al discloses that the claimed feature of a method for rendering a video particle explosion effect on a video source data file comprising: providing a graphics image data file [i.e. "the polygon data group of the object", which specified by "the video block"; 11 See col 8 line 4-5, col 6 line 18-44, col 7 line 62-col 8 line 12] of a particle pattern [i.e. "display element"; 1-29 shown in Fig 6(b)]; defining a shape [i.e. "the shape of the display element" See col 2 line 34-36, col 7 line 51-54, col 7 line 39-40, col 16 line 64-65] of a plurality of particles; generating a sequence of object definition data sets [i.e. "the polygon position data and polygon direction data of the display element per frame displaying period", "the renewal of frame image data" See col 8 line 19-21, col 8 line 29-30, col 9 line 48-50] using graphics image data file [i.e. "image data read from the CD-Rom"] (See Fig 2, col 6 line 18-31); providing a video source data file; rendering video particle explosion effect [i.e. "collapsing motion"] using object definition data sets and video source data file. (See Fig 8-14)

Regarding claim 12, Tsukamoto et al discloses that loading each field of video source data file [i.e. "image data read from the CD-Rom"] into a graphics engine [i.e. VDP; 110 in "video block" 11] (See Fig 2, col 6 line 18-31); loading a corresponding one of sequence of object definition data sets [i.e. "the polygon position data and polygon direction data of the display element per frame displaying period", "the renewal of frame image data" See col 8 line 19-21, col 8 line 29-30, col 9 line 48-50] into graphics engine;

Art Unit: 2672

generating a particle exploded ["collapsing"] video output [i.e. "video signal output" See Fig 2, col 5 line 35-36, col 6 line 40-44] using field and corresponding object definition data sets. (See Fig 8-14)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsukamoto et al (6,570,569) in view of Ito (6,690,810).

Regarding claims 2-3, Tsukamoto et al does not specifically discloses that graphics image data file has a plurality of channels, which are a red channel, a green channel, a blue channel and an alpha channel. However, such limitation is shown in the teaching of Ito. [i.e. image file with $RGB\alpha$ channels] (See "the image separating portion" 14, "channel" 22 in Fig 1, col 12 line 43-55, col 12 line 63-30) It would have been obvious to one skilled in the art to incorporate the teaching of Ito into the teaching of Tsukamoto et al, in order to represent image data with effective manner, as such improvement is also advantageously desirable in the teaching of Tsukamoto et al for

Art Unit: 2672

drawing proper display attribute of each display element of the polygon data group of the object with optimized manner.

Allowable Subject Matter

Claims 4 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowable subject matter:

The present invention is directed to a real-time 3D video effect. Each independent claim identifies the uniquely distinct features "graphics image data file defines at least one parameter of an explosion sequence for all of plurality of particles, a spin parameter for each of plurality of particles and a softness of edges of each plurality of particles and wherein shape, explosion sequence, spin parameter and softness are each defined in one of plurality of channels." The closest prior art, Tsukamoto et al (US 6,570,569) discloses a similar system, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2672

Conclusion '

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Chung whose telephone number is (703) 306-3419. He can normally be reached Monday-Thursday and alternate Fridays from 7:30am- 5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael, Razavi, can be reached at (703) 305-4713.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306 (Central fax)

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

djc March 17, 2005

JEFFERY ERIER
PRIMARY EXAMINER

Page 9

Application/Control Number: 09/828,457

Art Unit: 2672